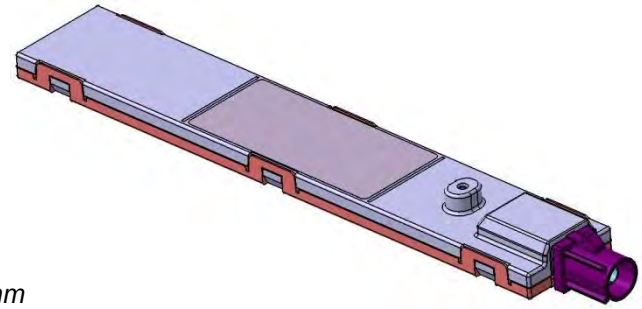
Datenblatt
Datasheet

Ecall-Antenne
Ecall Antenna

LTE weltweit
LTE worldwide

Molex: 6 40 18

Audi: 4M0.035.504.A



- Montage ohne elektrisches Gegengewicht, Mindestabstand zur Masse 10mm
- *free air mount, distance to ground min. 10mm*

Technische Daten / *Technical Data*

Frequenzbereich / *Frequency Range*	*617 – 5000 MHz*
Impedanz / *Impedance*	*50Ω*
Gewinn / *Gain*	*0,6dB*
Max. Gewinn / Peak Gain	*3,7dBi*
Belastbarkeit / *Max. Power*	*10W gepulst / pulsed*
Dimensionen der Antenne / *Dimensions of Antenna*	*126,50 x 20,00 x 10,55mm*
Anschluss / *Connector*	*Fakra Kodierung A / code A*

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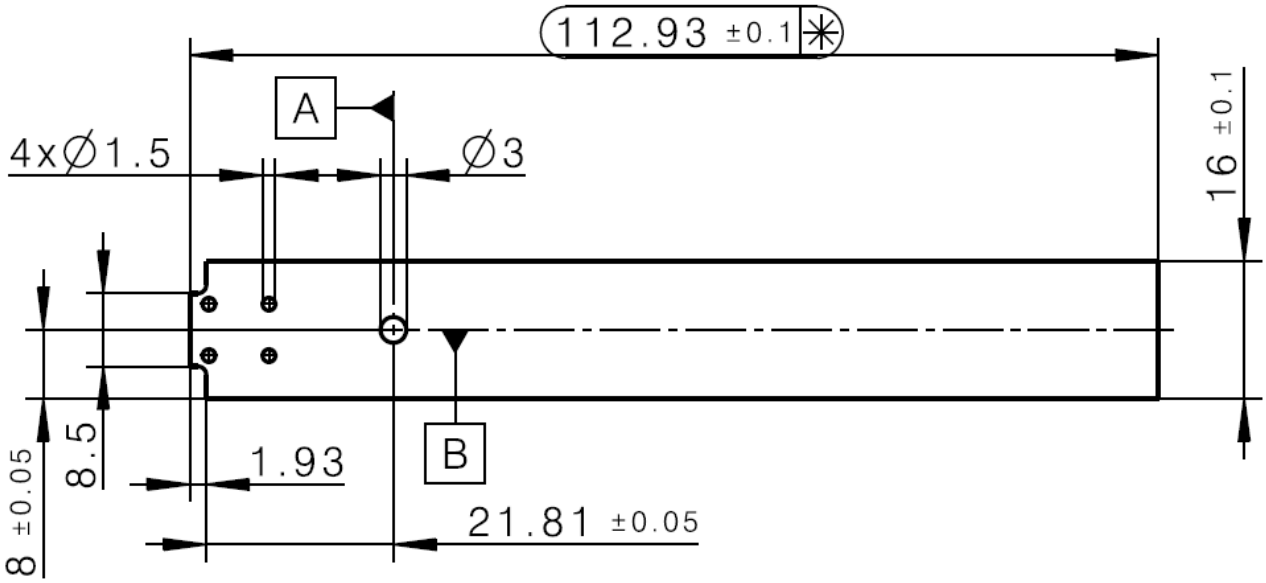
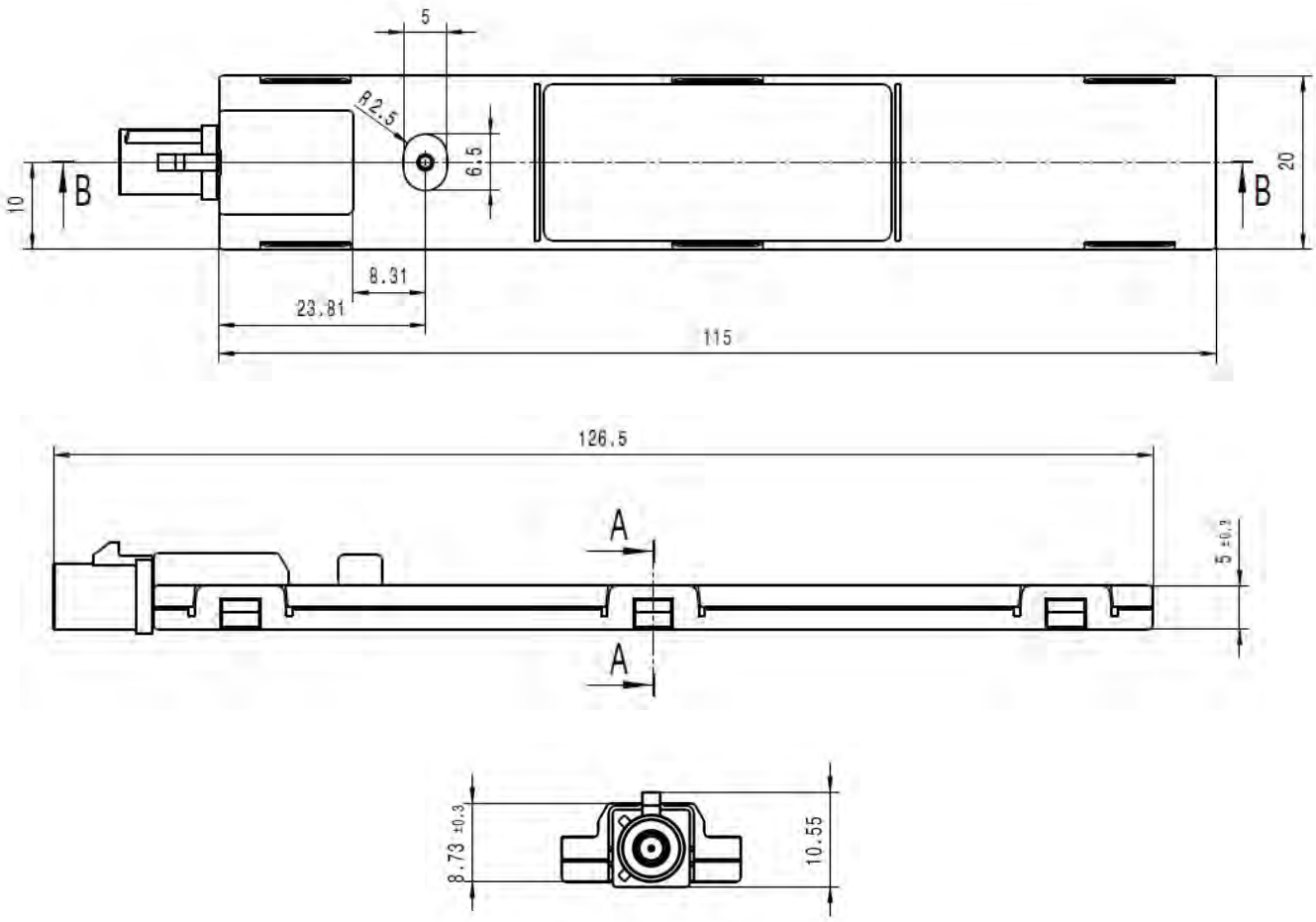
dimensions antenna itself



dimensions component



Polar Plot Horizontal Cut

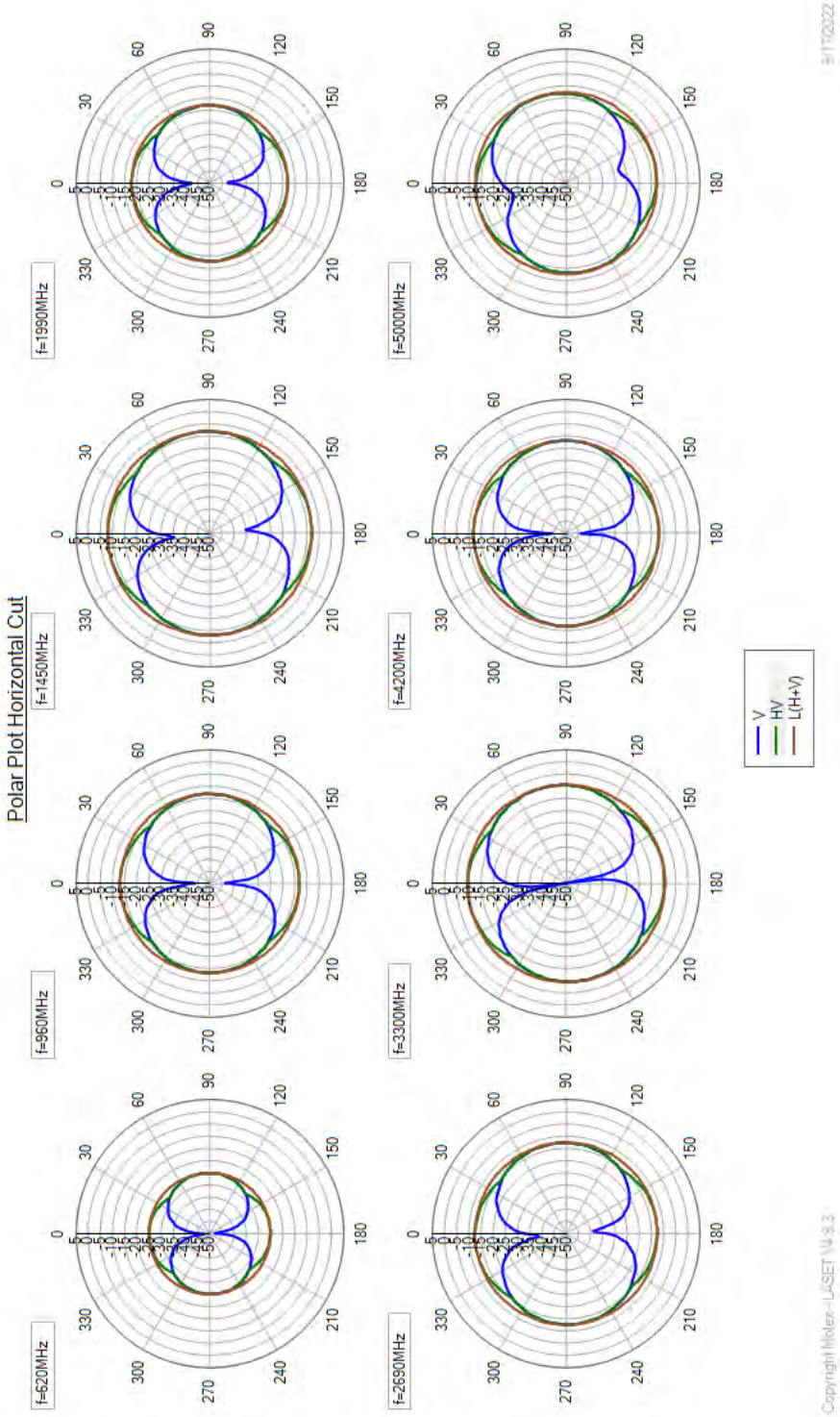


Figure 1 - eCall 5G antenna, Polar Plot Horizontal Cut, E=-90°

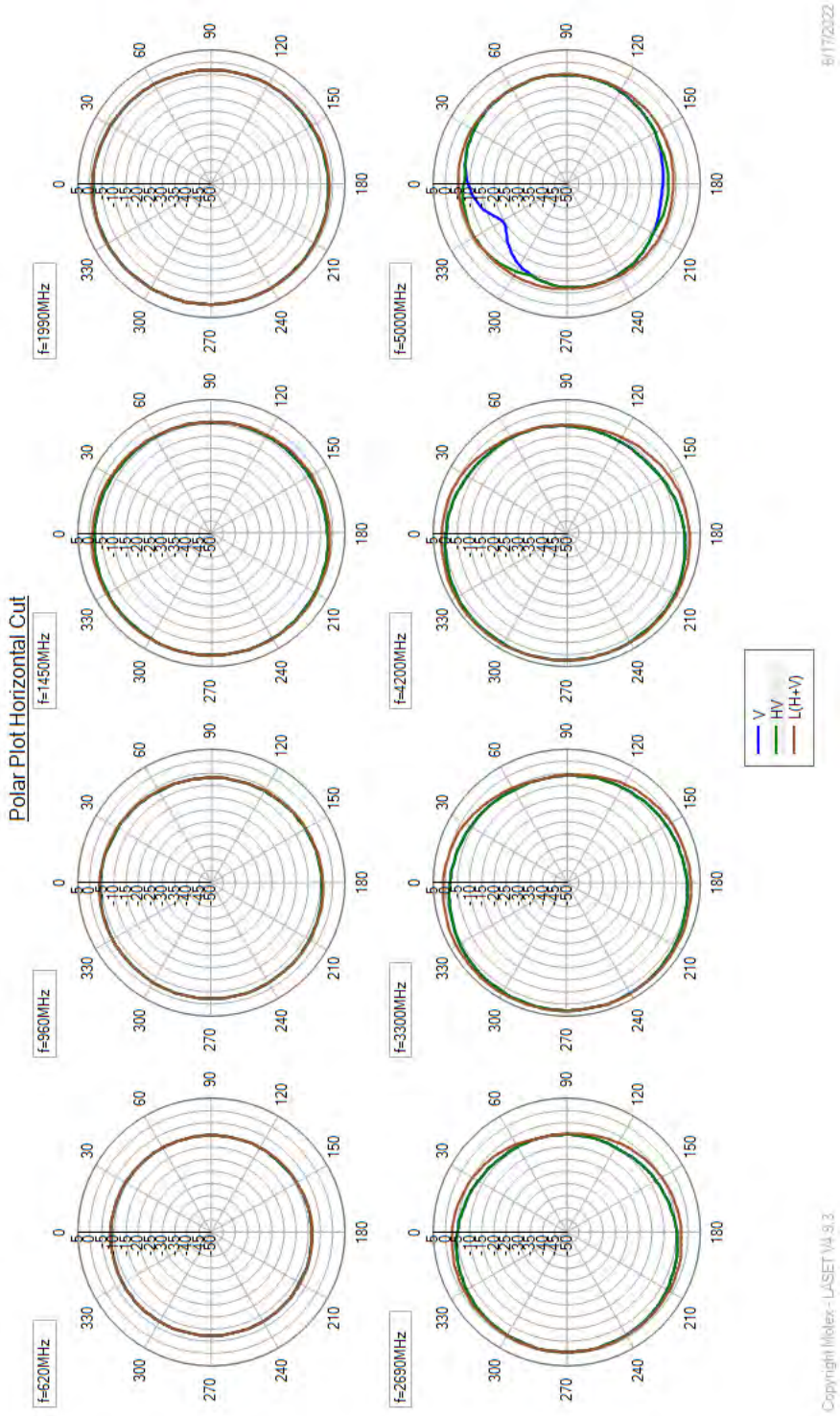


Figure 2 - eCall 5G antenna, Polar Plot Horizontal Cut, E=-66°

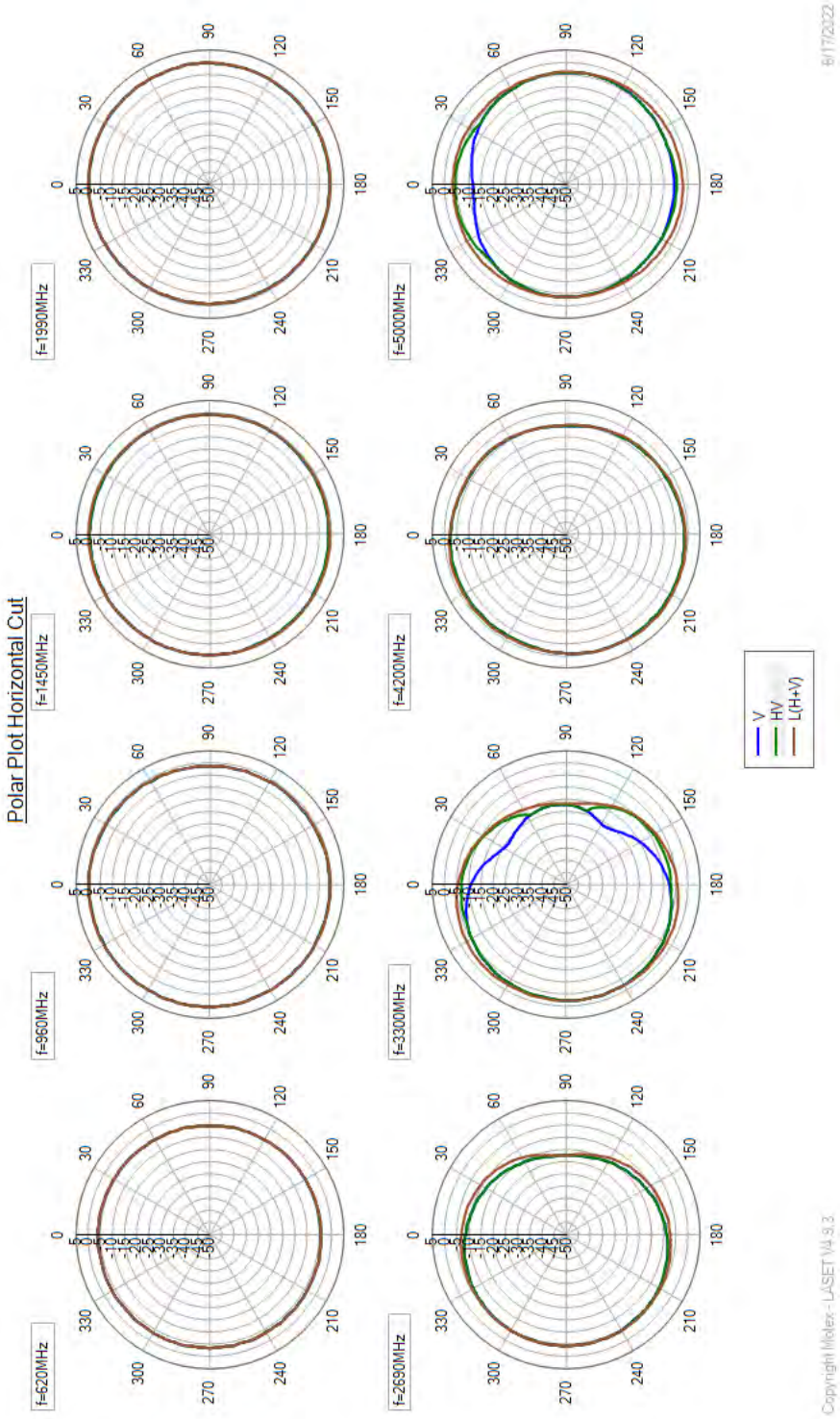


Figure 3 - eCall 5G antenna, Polar Plot Horizontal Cut, E=-45°

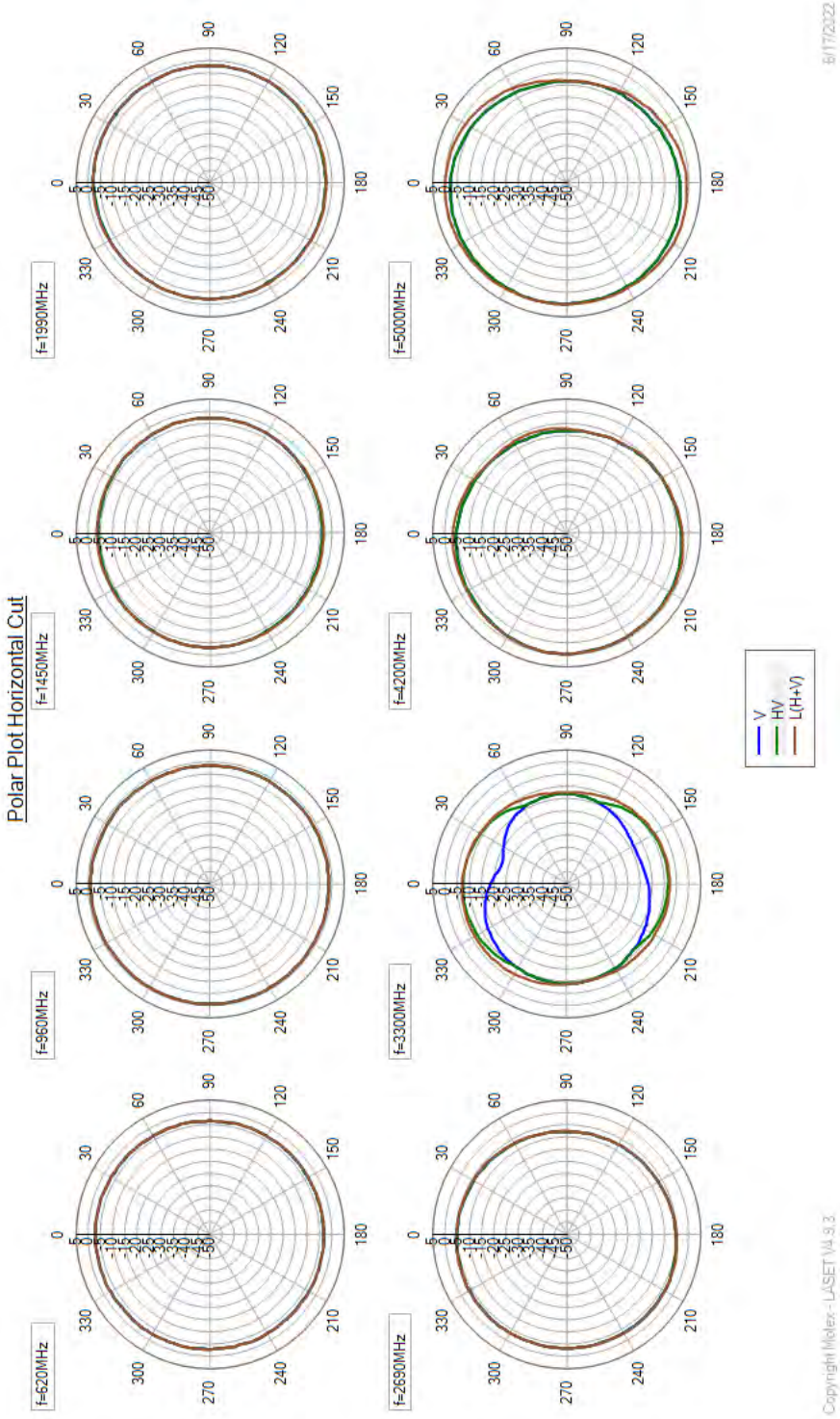


Figure 4 - eCall 5G antenna, Polar Plot Horizontal Cut, E=-24°

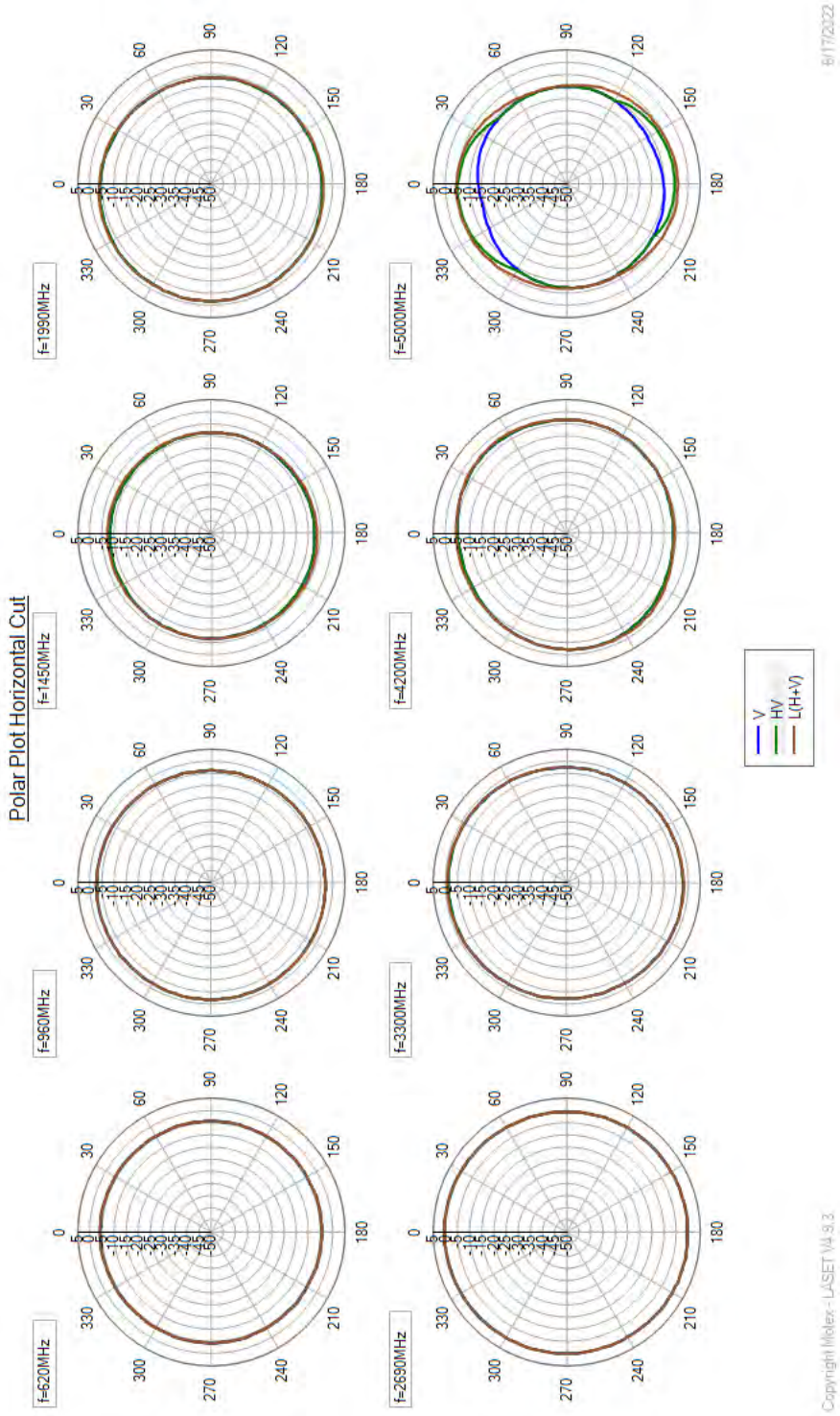


Figure 5 - eCall 5G antenna, Polar Plot Horizontal Cut, E=0°

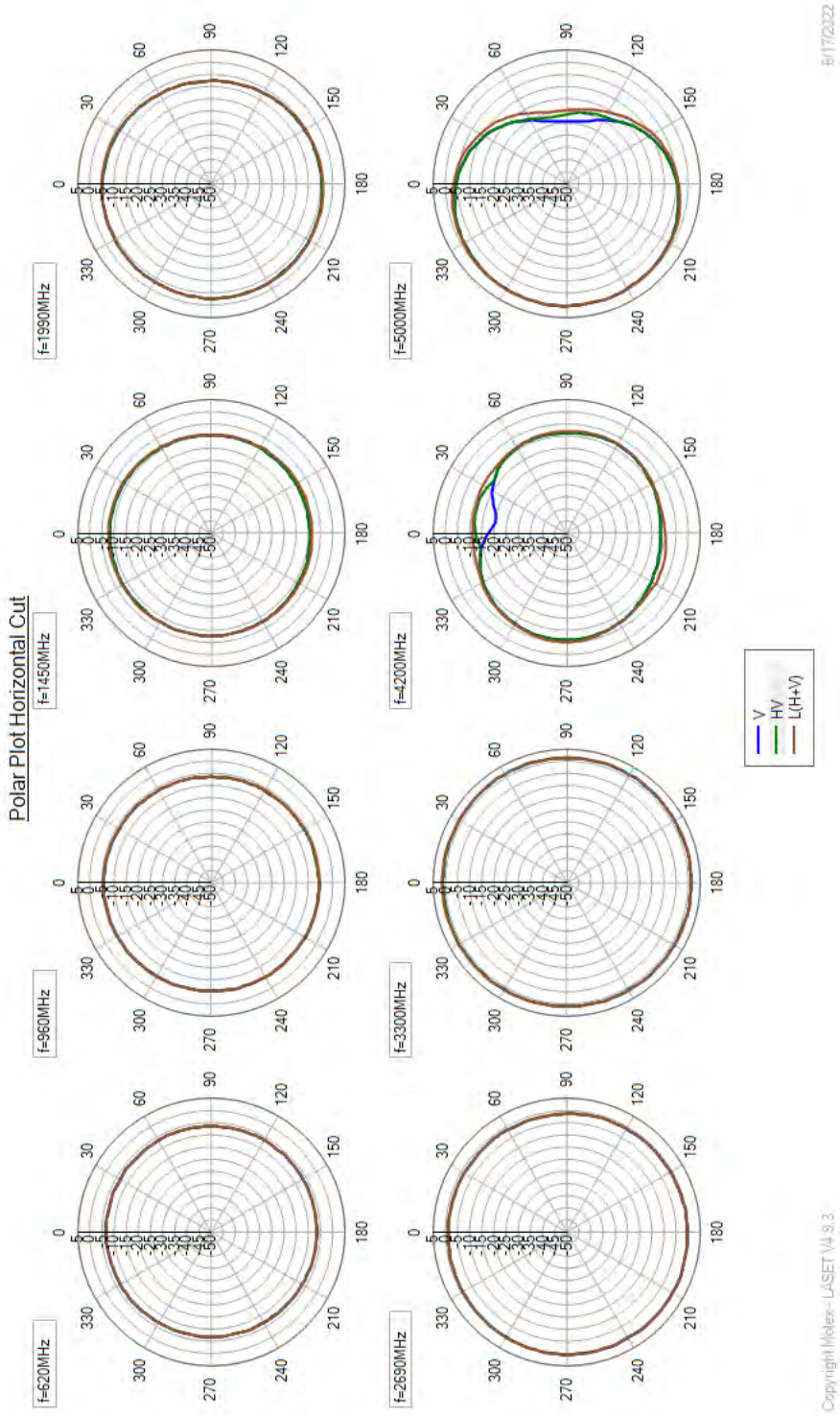


Figure 6 - eCall 5G antenna, Polar Plot Horizontal Cut, E=24°

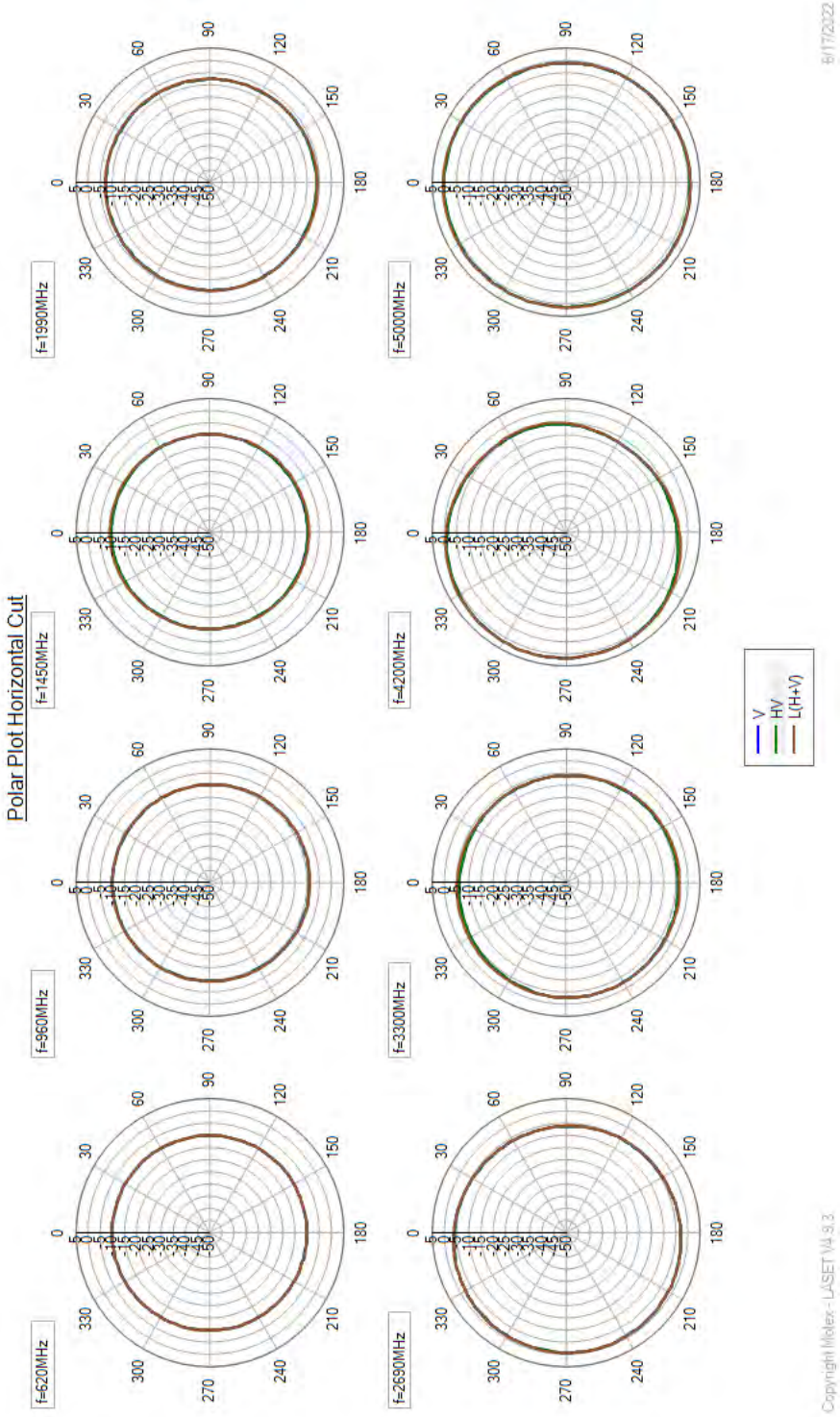


Figure 7 - eCall 5G antenna, Polar Plot Horizontal Cut, E=45°

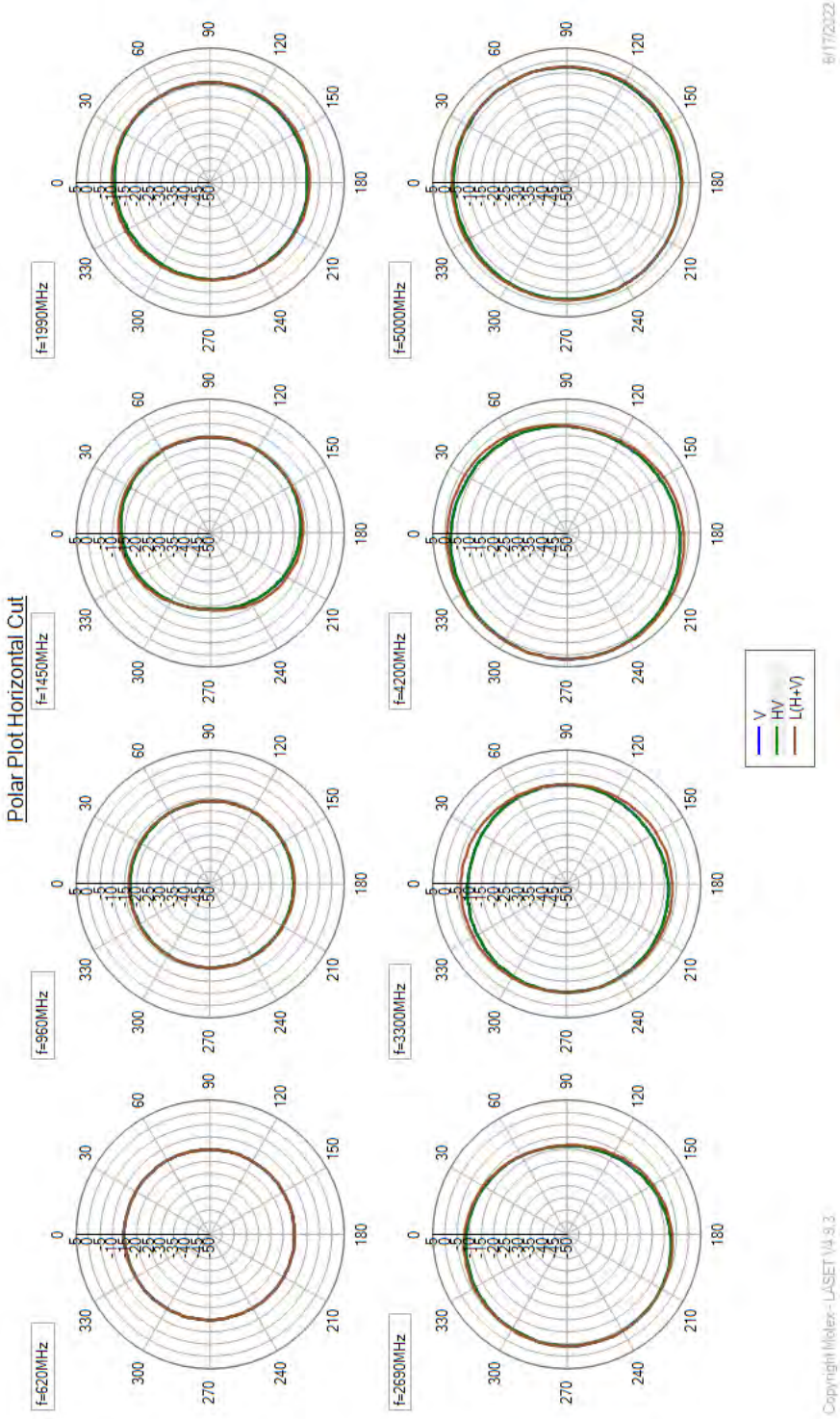


Figure 8 - eCall 5G antenna, Polar Plot Horizontal Cut, E=66°

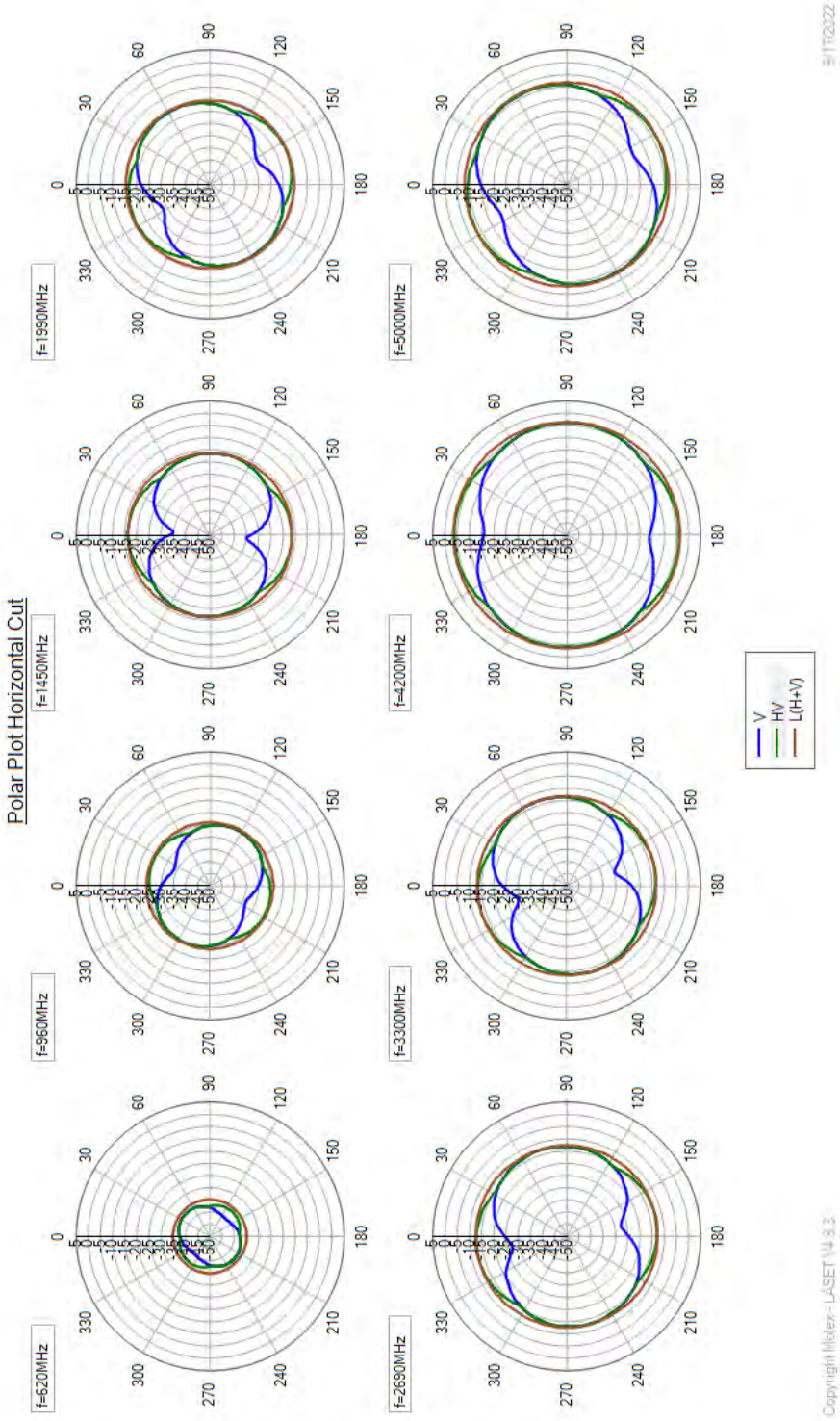


Figure 9 - eCall 5G antenna, Polar Plot Horizontal Cut, E=90°

Polar Plot Vertical Cut

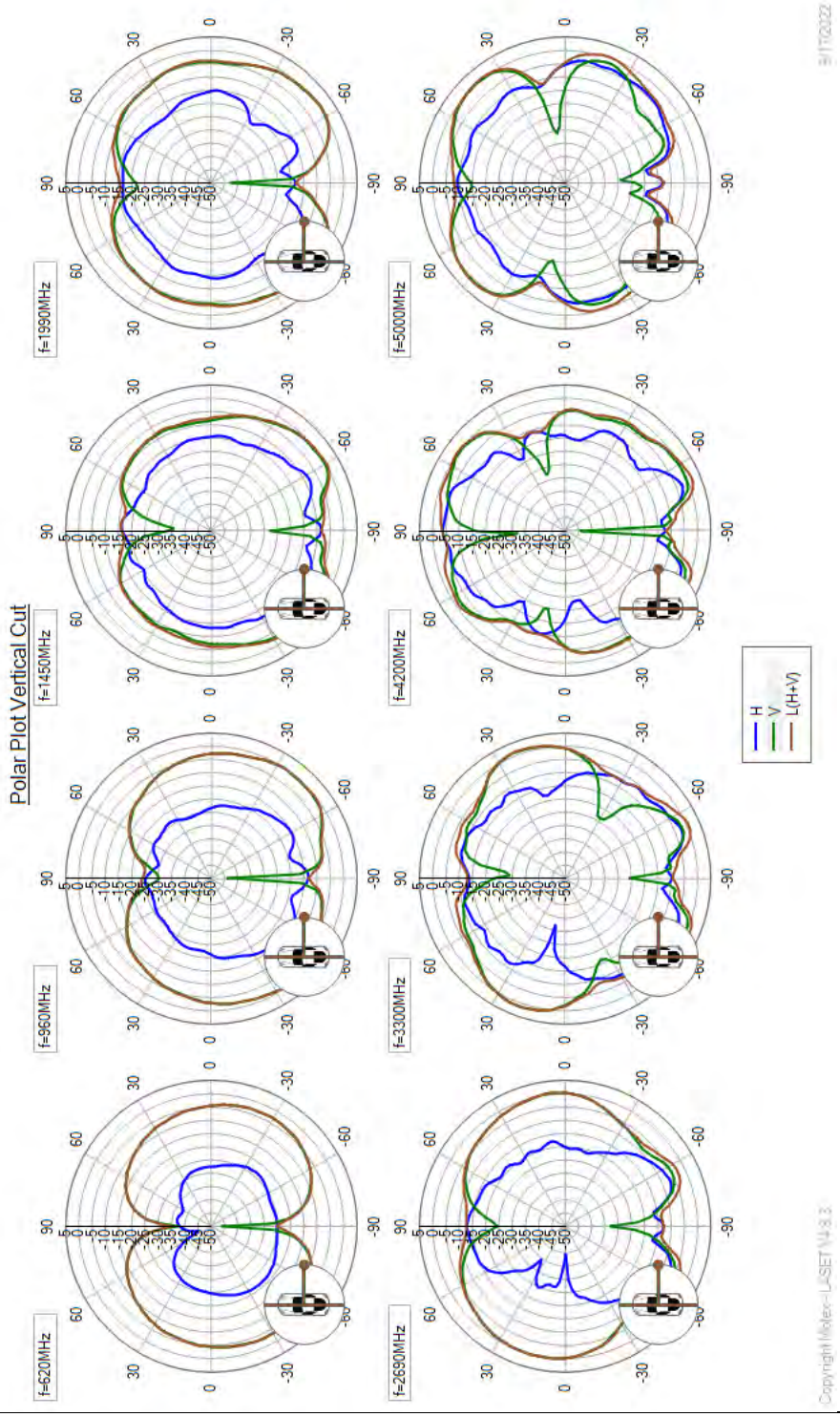


Figure 10 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=0°

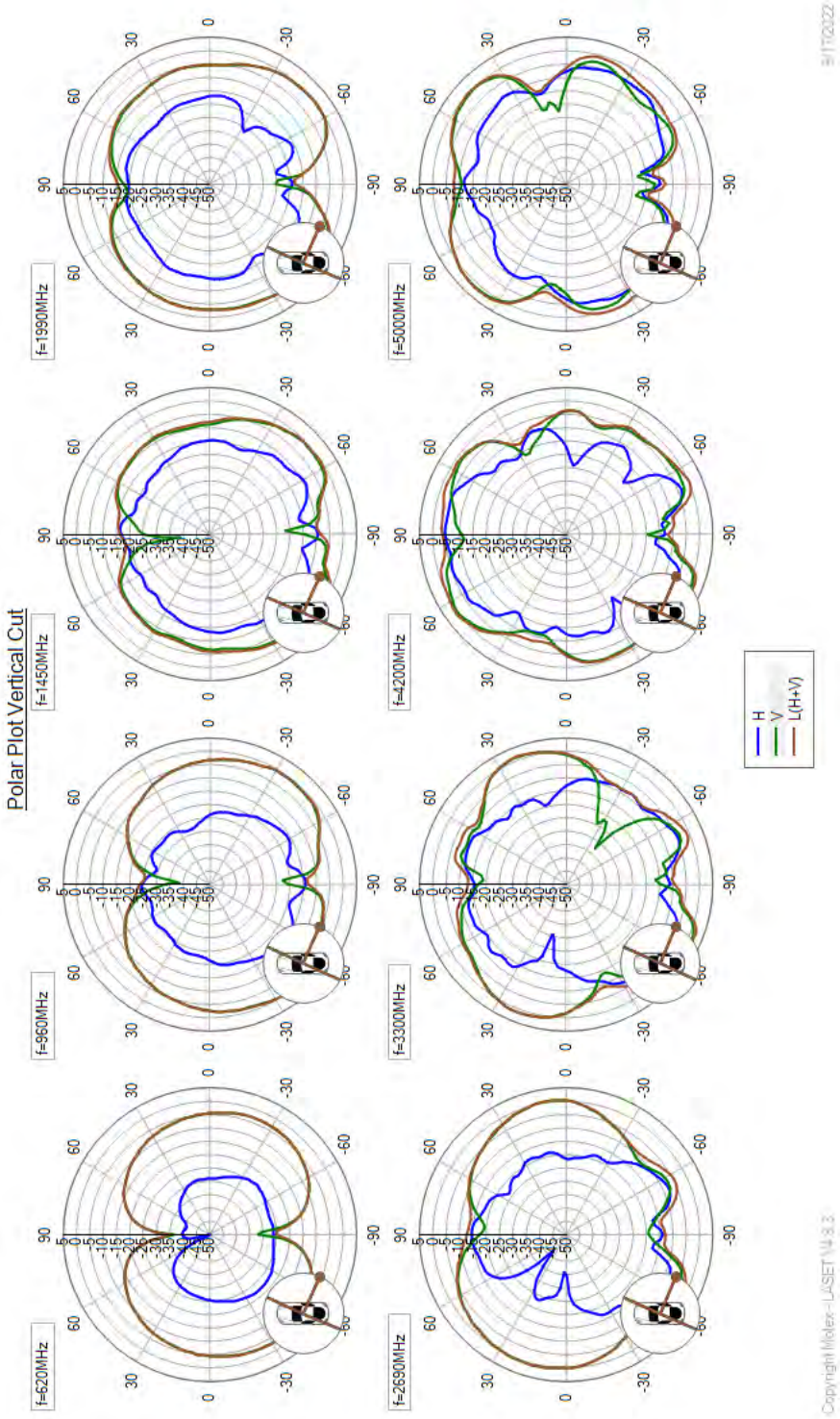


Figure 11 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=24°

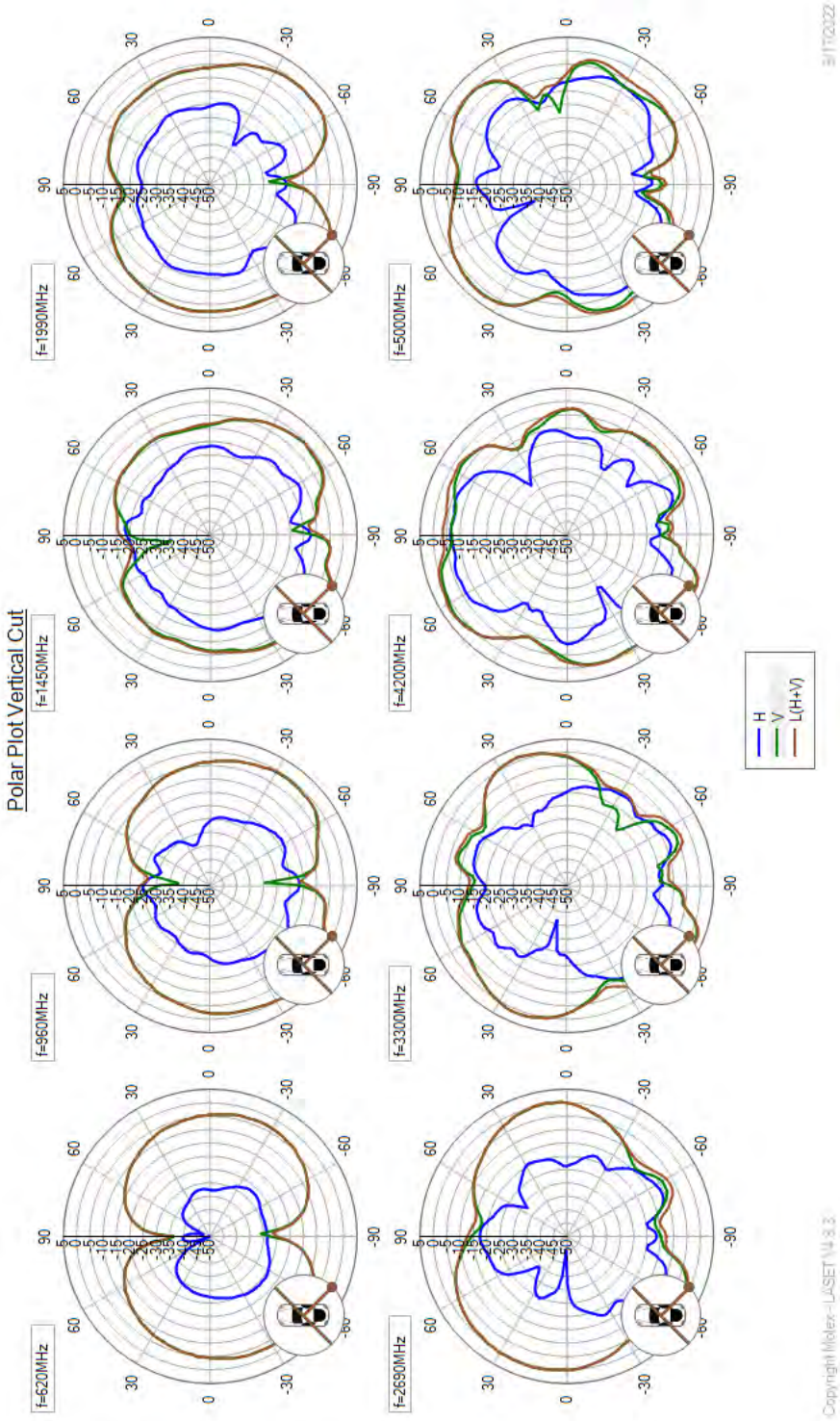


Figure 12 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=45°

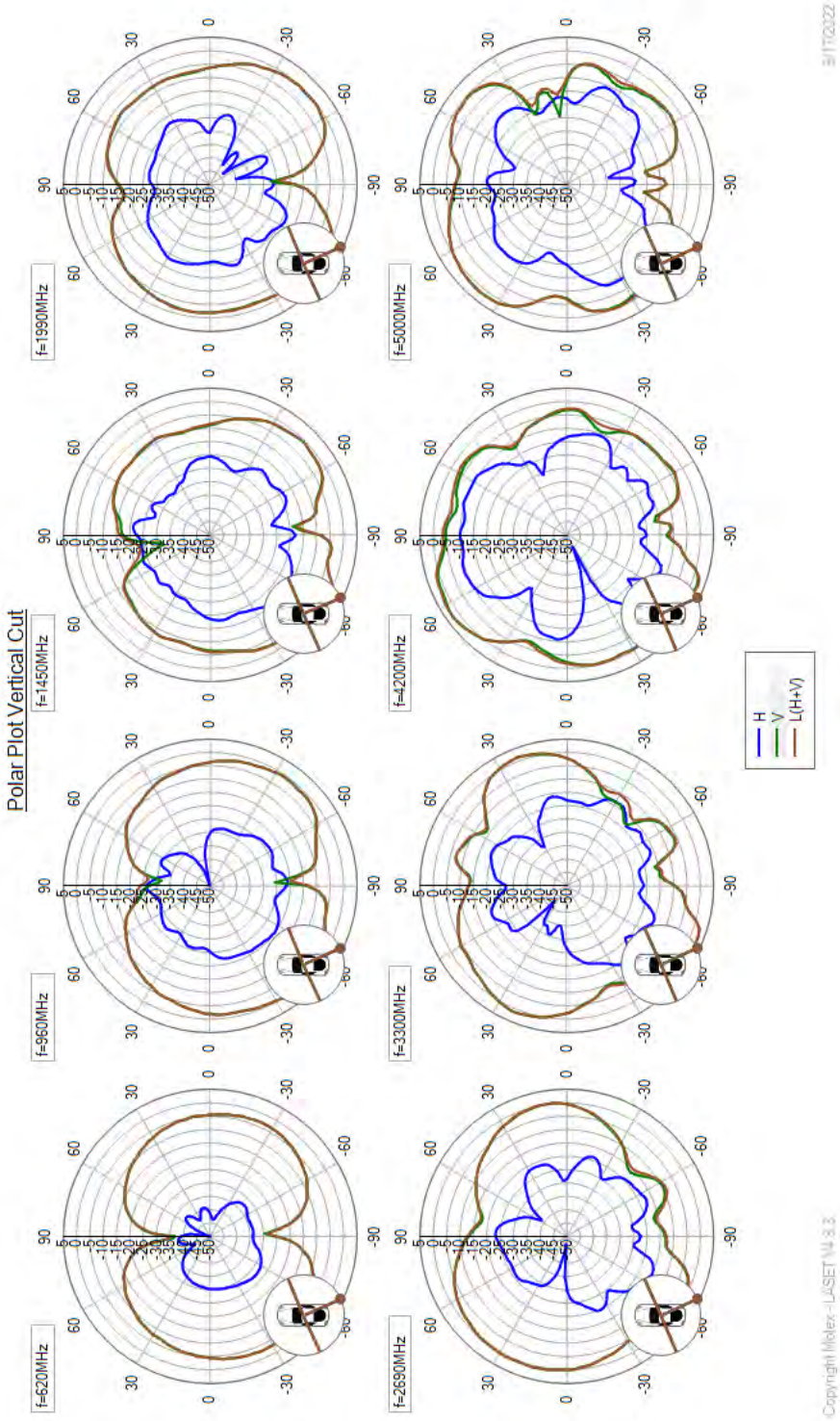


Figure 13 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=66°

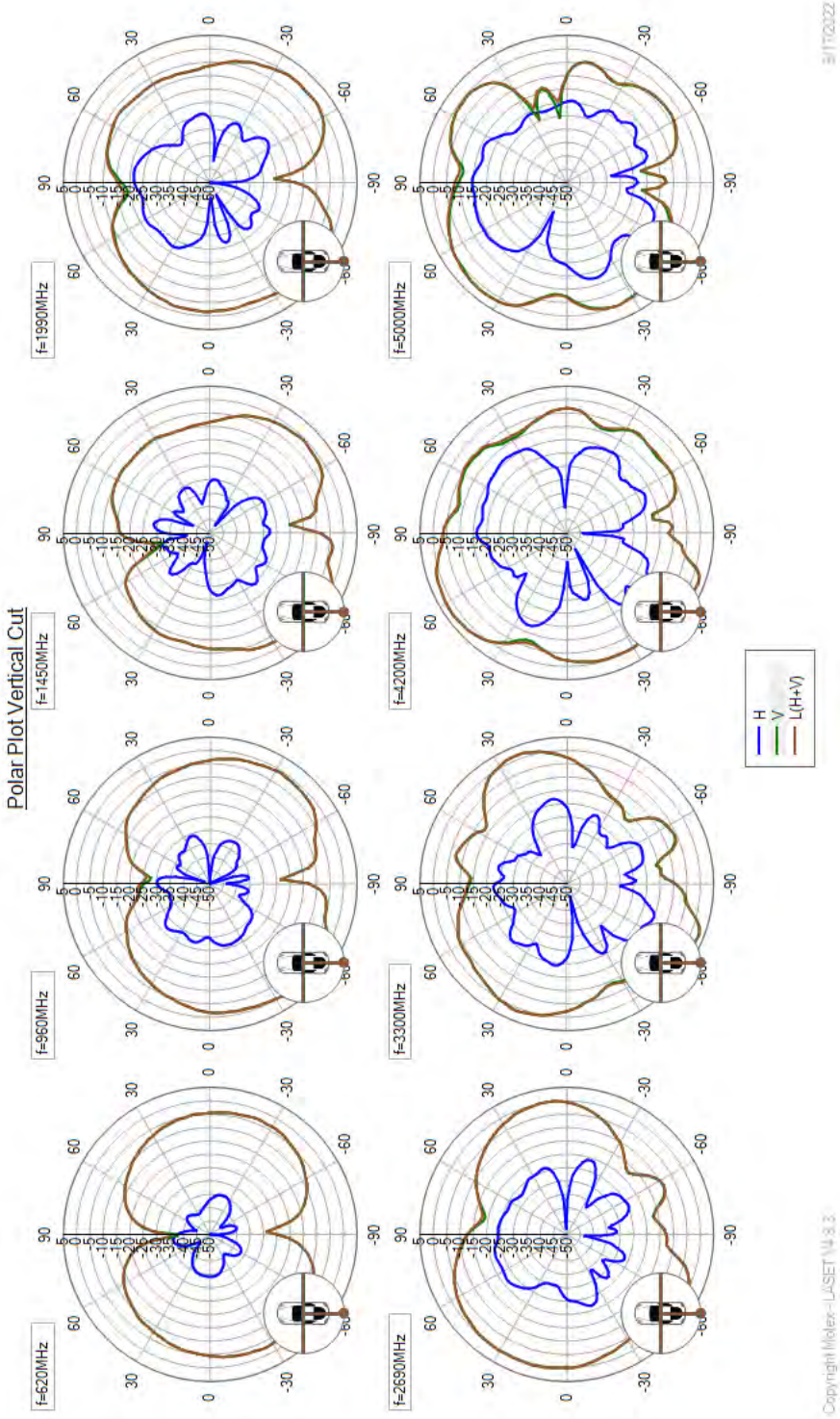


Figure 14 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=90°

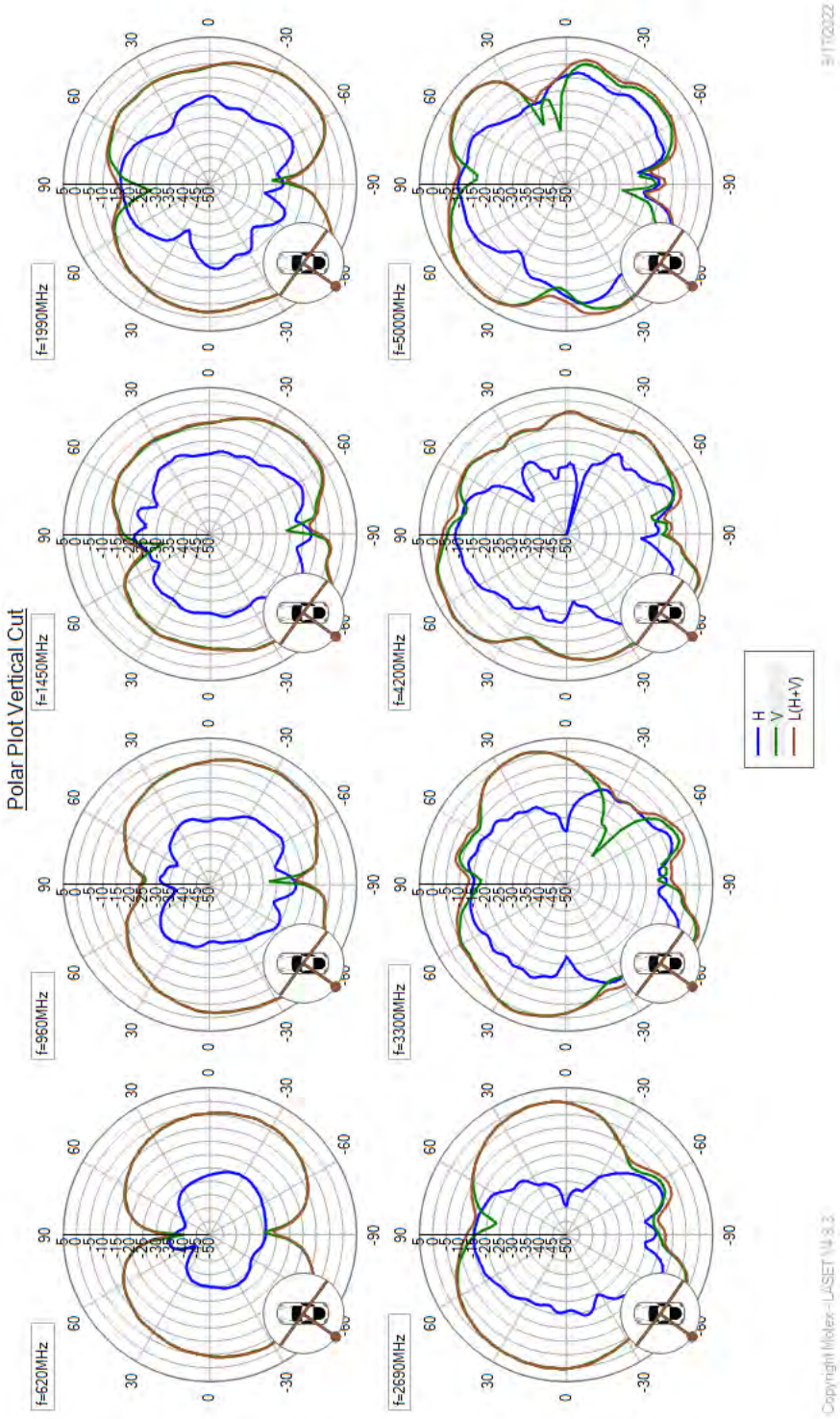


Figure 15 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=126°

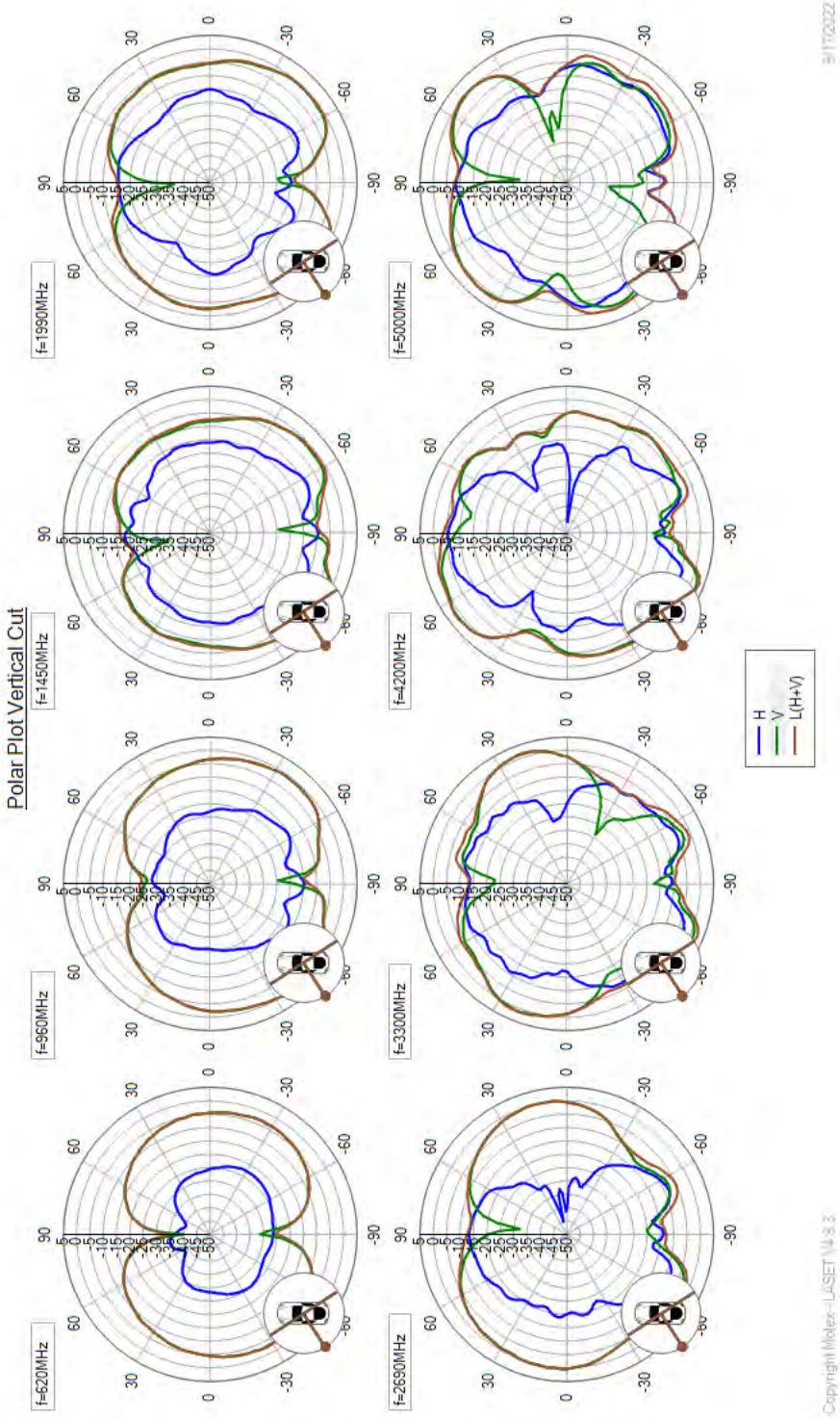


Figure 16 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=147°

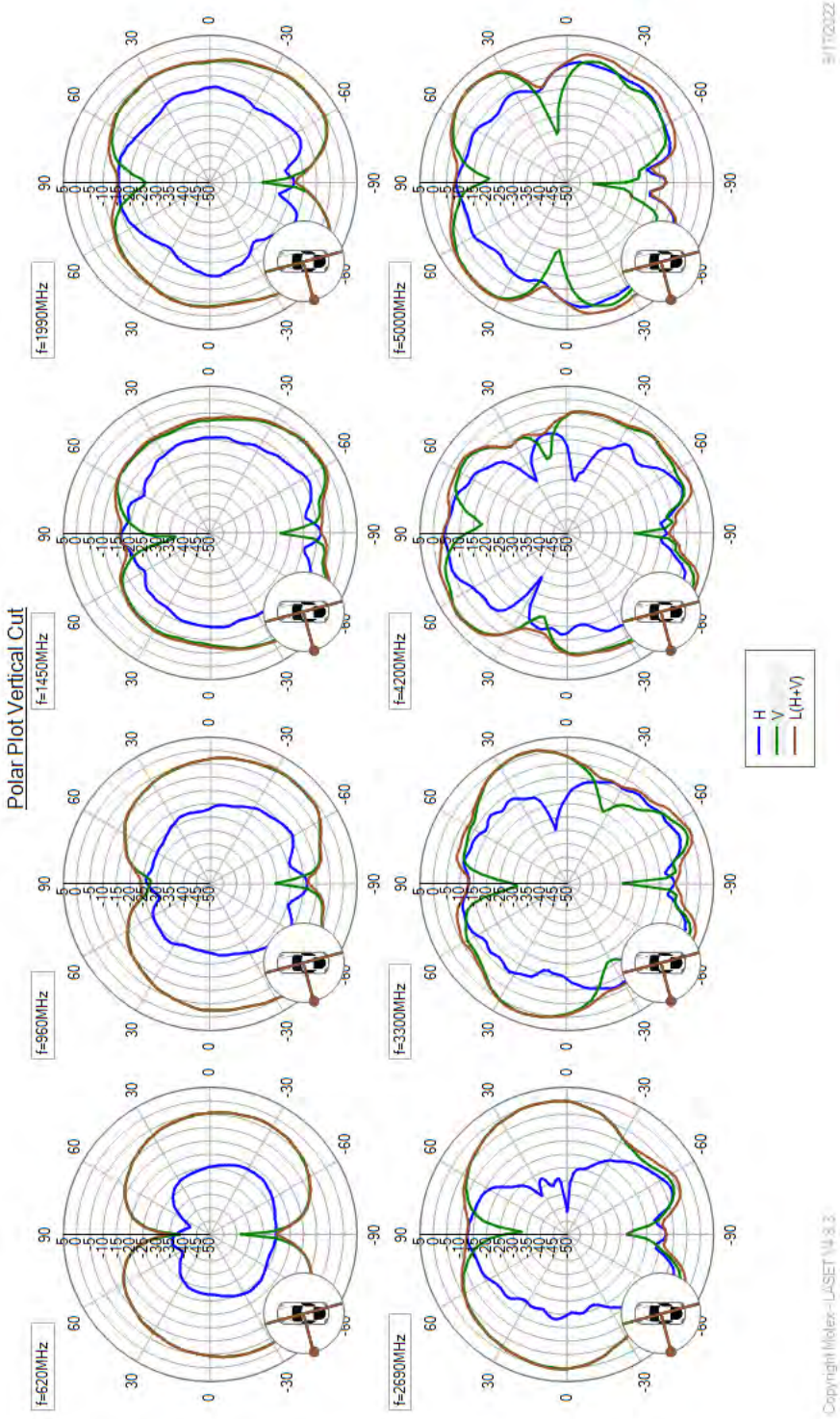


Figure 17 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=165°

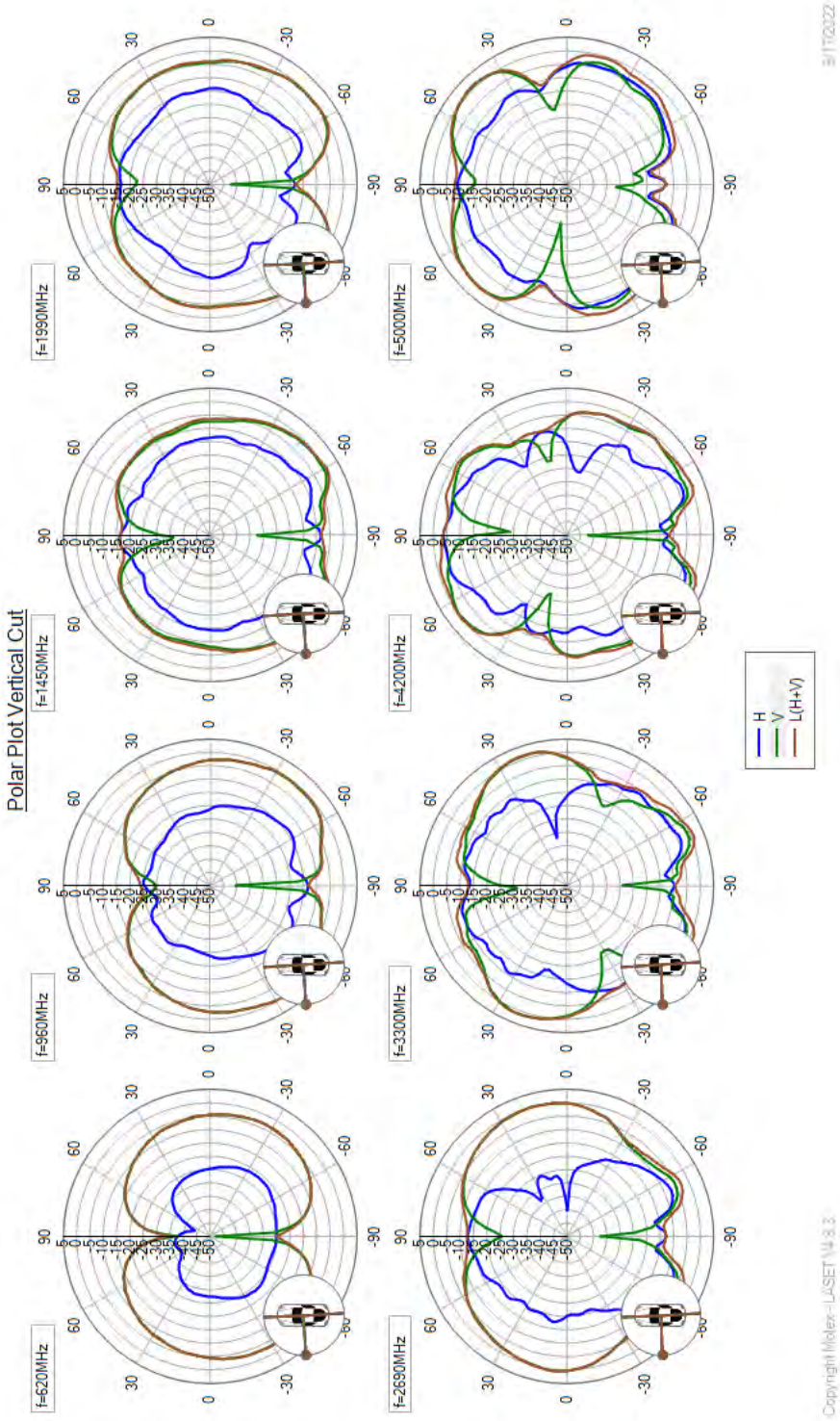


Figure 18 - eCall 5G antenna, Polar Plot Vertical Cut, Phi=177°

antenna peak values

H - overall peak			
f [MHz]	max [dB]	phi [°]	elevation [°]
4590	-0.59812	174	-69

V - overall peak			
f [MHz]	max [dB]	phi [°]	elevation [°]
4110	3.46086	285	-69

L(H+V) - overall peak			
f [MHz]	max [dB]	phi [°]	elevation [°]
4110	3.673421	312	-69

H - peak values			
f [MHz]	max [dB]	phi [°]	elevation [°]
600	-22.0111	180	-39
610	-21.3432	180	-39
620	-21.4098	180	-39
630	-20.7551	180	-39
640	-20.0175	183	-42
650	-20.0783	177	-45
660	-20.088	174	-48
670	-19.9789	177	-48
680	-19.3045	177	-48
690	-18.6729	174	-48
700	-18.5169	174	-45
710	-18.2717	177	-45
720	-18.1628	177	-48
730	-18.0041	177	-48
740	-17.6266	183	-51
750	-17.2604	180	-51
760	-17.1683	177	-51
770	-17.1761	177	-51
780	-16.7125	174	-54
790	-16.5821	177	-54
800	-16.7168	180	-54
810	-16.5061	183	-54
820	-15.8571	183	-51
830	-15.2238	180	-51
840	-15.5259	180	-51
850	-14.9579	0	-90
860	-15.1744	0	-90
870	-15.1793	180	-57
880	-14.7027	180	-57
890	-14.2946	183	-57
900	-14.0382	180	-57
910	-13.7532	0	-90
920	-14.0223	180	-87
930	-13.8631	183	-57
940	-13.804	183	-57
950	-13.4949	3	-90
960	-13.2261	0	-90
1427.9	-5.35629	174	-90

V - peak values			
f [MHz]	max [dB]	phi [°]	elevation [°]
600	-3.56761	282	-27
610	-3.2078	279	-30
620	-2.77986	285	-30
630	-2.54949	288	-30
640	-2.22305	300	-30
650	-2.16786	306	-33
660	-2.00196	285	-36
670	-1.95017	279	-36
680	-1.8086	279	-33
690	-1.72113	282	-27
700	-1.66807	285	-30
710	-1.48844	285	-30
720	-1.27846	282	-33
730	-1.1976	282	-36
740	-1.16424	279	-39
750	-0.95909	279	-39
760	-0.86208	285	-36
770	-0.82655	285	-36
780	-0.88819	279	-36
790	-1.02131	279	-36
800	-0.90821	276	-33
810	-0.771	279	-33
820	-0.62595	282	-36
830	-0.52161	279	-39
840	-0.46945	279	-42
850	-0.59129	273	-48
860	-0.61307	273	-48
870	-0.54456	276	-45
880	-0.36176	276	-42
890	-0.22737	279	-36
900	-0.10375	279	-33
910	-0.09788	282	-36
920	-0.20254	285	-36
930	-0.31343	273	-51
940	-0.12572	273	-51
950	0.310473	273	-54
960	0.45301	273	-54
1427.9	1.584042	267	-60

L(H+V) - peak values			
f [MHz]	max [dB]	phi [°]	elevation [°]
600	-3.56665	282	-27
610	-3.20709	279	-30
620	-2.77762	288	-30
630	-2.54547	291	-30
640	-2.21586	309	-30
650	-2.15264	318	-33
660	-1.99758	288	-36
670	-1.94775	282	-36
680	-1.80712	282	-33
690	-1.71954	282	-27
700	-1.66417	288	-30
710	-1.48263	288	-30
720	-1.27308	288	-33
730	-1.19238	285	-36
740	-1.16163	279	-39
750	-0.95794	282	-39
760	-0.8604	288	-36
770	-0.82253	291	-36
780	-0.88504	282	-36
790	-1.01667	279	-36
800	-0.90286	279	-33
810	-0.76351	282	-33
820	-0.61799	288	-33
830	-0.51704	279	-39
840	-0.46812	276	-42
850	-0.59022	273	-48
860	-0.61243	273	-48
870	-0.5421	279	-45
880	-0.35668	279	-42
890	-0.2207	279	-36
900	-0.09709	279	-33
910	-0.09278	282	-36
920	-0.1962	285	-36
930	-0.30792	273	-51
940	-0.12124	270	-51
950	0.312197	270	-54
960	0.455257	273	-54
1427.9	1.592358	273	-60

1430	-5.63698	174	-90	1430	1.492073	267	-60	1430	1.499624	273	-60
1440	-6.98678	174	-90	1440	1.285991	267	-60	1440	1.291949	267	-60
1450	-7.97227	180	-63	1450	1.203	270	-60	1450	1.209701	270	-60
1452	-7.89629	183	-63	1452	1.095205	270	-60	1452	1.100228	270	-60
1460	-7.35975	180	-63	1460	1.088894	273	-60	1460	1.091398	273	-60
1462	-7.21892	177	-63	1462	1.138546	273	-60	1462	1.140873	276	-60
1470	-6.71903	174	-63	1470	1.174438	273	-60	1470	1.176462	276	-60
1472	-6.64874	171	-63	1472	1.262212	273	-60	1472	1.265304	276	-60
1480	-6.71514	171	-63	1480	1.278613	270	-60	1480	1.283239	276	-60
1482	-6.76223	171	-63	1482	1.21327	270	-60	1482	1.218646	279	-60
1490	-6.75174	171	-63	1490	0.989354	270	-60	1490	1.006162	288	-60
1492	-6.6906	171	-63	1492	0.893289	270	-60	1492	0.908282	288	-60
1500	-6.67836	171	-63	1500	0.357833	270	-60	1500	0.366234	279	-60
1510	-6.45065	177	-90	1510	-0.12303	270	-63	1510	-0.10001	87	-45
1710	-10.3313	168	-63	1710	1.353158	273	-60	1710	1.35683	276	-60
1720	-10.5915	171	-60	1720	1.255129	273	-60	1720	1.260541	276	-60
1730	-10.8438	171	-60	1730	1.143788	273	-60	1730	1.148754	276	-60
1740	-10.8734	174	-63	1740	0.974466	273	-60	1740	0.97774	276	-60
1750	-10.6882	171	-63	1750	0.895904	270	-60	1750	0.897813	273	-60
1760	-10.4339	168	-63	1760	0.887424	273	-60	1760	0.888588	276	-60
1770	-10.6456	168	-63	1770	0.928419	273	-60	1770	0.930883	276	-60
1780	-11.0576	165	-63	1780	0.873428	273	-60	1780	0.881172	282	-60
1790	-11.5218	165	-63	1790	0.823925	276	-60	1790	0.837828	285	-60
1800	-11.5056	165	-63	1800	0.748776	276	-60	1800	0.767298	291	-60
1810	-11.4746	165	-63	1810	0.735648	276	-60	1810	0.740179	282	-60
1820	-11.8034	168	-63	1820	0.554556	273	-60	1820	0.555285	276	-60
1830	-12.3579	171	-60	1830	0.379154	276	-60	1830	0.384316	282	-60
1840	-12.7303	168	-60	1840	0.447473	276	-60	1840	0.464777	288	-60
1850	-12.6445	168	-63	1850	0.396906	279	-60	1850	0.413529	291	-60
1860	-12.2758	171	-63	1860	0.250132	279	-60	1860	0.258006	291	-60
1870	-12.1667	174	-63	1870	0.247267	279	-60	1870	0.249018	285	-60
1880	-12.3466	174	-63	1880	0.425285	279	-60	1880	0.428835	279	-60
1890	-12.4941	171	-63	1890	0.701019	279	-60	1890	0.711062	285	-60
1900	-12.5163	171	-63	1900	0.775584	282	-60	1900	0.791502	288	-60
1910	-12.457	171	-63	1910	0.691913	288	-60	1910	0.718809	300	-60
1920	-12.2779	171	-63	1920	0.552322	321	-57	1920	0.633102	330	-57
1930	-12.468	168	-63	1930	0.388135	324	-57	1930	0.472064	333	-57
1940	-12.6451	168	-63	1940	0.372108	291	-60	1940	0.416767	339	-57
1950	-12.8045	168	-63	1950	0.564722	294	-60	1950	0.599662	309	-60
1960	-12.8631	171	-63	1960	0.616082	300	-60	1960	0.65195	312	-60
1970	-12.5807	171	-63	1970	0.632084	303	-60	1970	0.665286	312	-60
1980	-12.4474	171	-63	1980	0.427817	300	-60	1980	0.45627	309	-60
1990	-12.5004	174	-63	1990	0.468863	303	-60	1990	0.502599	312	-60
2000	-12.2089	348	-63	2000	0.738392	294	-60	2000	0.840526	306	-60
2010	-12.0557	351	-63	2010	0.761152	297	-60	2010	0.875623	306	-60
2020	-11.1221	351	-63	2020	0.969221	300	-60	2020	1.128499	309	-60
2030	-10.2359	348	-63	2030	1.075982	300	-60	2030	1.274799	309	-60
2040	-10.0388	345	-63	2040	0.887328	300	-60	2040	1.100995	312	-60

2050	-10.4747	345	-63	2050	0.625649	297	-60	2050	0.81454	312	-60
2060	-11.265	351	-63	2060	0.235213	291	-60	2060	0.372288	309	-60
2070	-11.6067	354	-63	2070	0.084358	288	-60	2070	0.228489	321	-57
2080	-11.4969	354	-63	2080	0.197788	288	-60	2080	0.360904	321	-57
2090	-11.548	357	-63	2090	0.415687	288	-60	2090	0.506092	303	-60
2100	-12.1965	3	-63	2100	0.374748	291	-60	2100	0.440014	303	-60
2110	-13.0765	3	-63	2110	0.15769	294	-60	2110	0.209325	303	-60
2120	-12.5834	177	-63	2120	-0.0931	315	-57	2120	-0.02993	318	-57
2130	-12.456	177	-63	2130	-0.07976	315	-57	2130	-0.01513	321	-57
2140	-12.5338	174	-63	2140	0.204439	312	-57	2140	0.277264	318	-57
2150	-12.8263	174	-63	2150	0.213896	309	-57	2150	0.286024	315	-57
2160	-13.265	174	-63	2160	0.037609	309	-57	2160	0.103854	315	-57
2170	-13.4512	180	-63	2170	-0.10426	267	6	2170	-0.09208	264	6
2300	-11.7586	357	-60	2300	1.217748	258	15	2300	1.229051	258	15
2310	-11.8542	357	-60	2310	1.563132	258	15	2310	1.584497	258	15
2320	-11.5408	0	-60	2320	1.673996	261	12	2320	1.674547	261	12
2330	-11.5985	357	-60	2330	1.678867	261	12	2330	1.683656	261	12
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2370	-11.914	354	-63	2370	1.604387	261	12	2370	1.656068	258	12
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2390	-11.6179	357	-63	2390	1.627052	261	15	2390	1.638096	261	15
2400	-11.7109	186	-63	2400	1.669086	261	15	2400	1.705356	258	15
2410	-11.508	0	-63	2410	1.765169	264	12	2410	1.782137	261	12
2420	-11.1821	0	-63	2420	1.932708	261	12	2420	1.956862	258	12
2430	-10.5899	183	-63	2430	2.142806	264	9	2430	2.178164	261	9
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2450	-10.1025	180	-63	2450	2.366342	264	6	2450	2.390754	264	6
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2500	-9.56739	357	-63	2500	2.277847	264	12	2500	2.283328	264	12
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2590	-8.27921	357	-63	2590	1.080722	276	12	2590	1.081985	276	12
2600	-8.36325	357	-66	2600	0.970352	264	15	2600	0.973362	261	15
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2620	-7.94427	354	-66	2620	0.961904	231	15	2620	0.976248	228	15
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4570	-0.6927	177	-69	4570	2.850939	261	-69	4570	3.233338	219	-69
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4620	-0.61364	174	-69	4620	2.441003	255	-69	4620	2.960748	216	-69
4630	-0.72036	174	-69	4630	2.434212	252	-69	4630	2.946388	216	-69
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4660	-0.75992	174	-69	4660	2.044652	249	-69	4660	2.750288	213	-66
4670	-0.79206	174	-69	4670	1.932082	246	-69	4670	2.657417	213	-66
4680	-0.97503	174	-69	4680	1.728972	246	-66	4680	2.504822	213	-66

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4730	-2.2322	339	-18	4730	0.792061	243	-69	4730	1.412495	219	-69
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4860	-1.47585	339	-18	4860	1.374318	285	27	4860	1.530649	339	-21
4870	-1.64532	342	-18	4870	1.440008	288	27	4870	1.577169	336	-24
4880	-1.85388	342	-18	4880	1.474483	285	30	4880	1.566513	336	-24
4890	-2.13573	342	-18	4890	1.537445	240	36	4890	1.68408	225	36
4900	-2.29835	339	-15	4900	1.569141	237	36	4900	1.708527	228	36
4910	-2.26991	339	-12	4910	1.652536	234	36	4910	1.788426	225	36
4920	-2.37991	336	-12	4920	1.594499	234	36	4920	1.757165	225	36
4930	-2.28989	339	-12	4930	1.644867	231	36	4930	1.850817	222	36
4940	-2.23356	339	-12	4940	1.847732	231	36	4940	2.0669	222	36
4950	-2.29496	339	-12	4950	1.866801	231	36	4950	2.056386	222	36
4960	-2.58504	339	-12	4960	1.773477	231	36	4960	1.939387	222	36
4970	-2.74451	339	-9	4970	1.681229	234	36	4970	1.847176	222	36
4980	-2.72509	336	-9	4980	1.692553	234	36	4980	1.847683	225	36
4990	-2.68442	336	-9	4990	1.74345	234	36	4990	1.877218	228	36
5000	-2.68274	339	-9	5000	1.83138	231	39	5000	1.961697	225	39